

"A novel current-mode OTA-C universal filter"

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Abstract

A novel mixed-mode biquad circuit is presented. The circuit uses six single-output and one dual-output-operational transconductance amplifiers, two grounded capacitors; and can realize lowpass, highpass, bandpass, notch, lowpass-notch, highpass-notch and allpass responses from the same topology. The circuit can be driven by voltage or current and its output can be voltage or current. The Q / Q_0 enjoy independent electronic tunability. Simulation and experimental results are included.